## IN THE CLAIMS

Please amend the claims as follows:

- 1. (Currently Amended) <u>Method A method</u> for authenticating a first unit to a second unit, <u>said method</u> comprising the steps of:
- a) exchanging authentication data between said first unit and said second unit, said authentication data being retrieved from an authorisation—authorization list comprising a list identifier—;
- b) checking the presence of the first unit on the authorization list; and
- b)c) checking the authenticity validity of the authorisation authorization list and the origin of the authentication data from a valid authorisation listusing the list identifier received from the first unit and a list identifier stored in the second unit.
- 2. (Currently Amended) Method according to The method as claimed in claim 1, wherein authentication of said first unit is terminated if either of said step of checking steps fails.
- 3. (Currently Amended) Method according to The method as claimed in claim 1, wherein said first unit comprises an application unit including an application and said second unit comprises a security unit.

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- 4. (Currently Amended) Method according to The method as claimed in claim 3, wherein said authorisation authorization list comprises a certified application list comprising information about authorised—authorized applications.
- 5. (Currently Amended) Method according to The method as

  claimed in claim 4,

  wherein in said step a), a certified public key of said

  application unit retrieved from said certified application list and

  a list identifier of said certified application list is transmitted

  from said application unit to said security unit, and

  wherein in said step bc) said certified public key of said

  application unit and said list identifier of said certified

  application list is checked by said security unit.
  - 6. (Currently Amended) Method according to claim The method as claimed in claim 5, wherein said method further comprising comprises the steps of:
- b1) transmitting a certified public key of said security unit from said security unit to said application unit; and
  - b2) checking said certified public key of said security unit by said application unit against a certified security unit revocation list.

- 7. (Currently Amended) Method according to The method as claimed in claim 6, wherein said certified public keys are checked by use of a public key of a certification unit provided by said certification unit to said security unit and said application unit.
- 8. (Currently Amended) Method according to The method as claimed in claim 5, wherein said certified application list is provided and updated by a certification unit.
- 9. (Currently Amended) Method according to The method as claimed in claim 1, wherein said list identifier is distributed together with data carriers or from any of said first unit, second unit or said certification unit.
- 10. (Currently Amended) Method A method for transmitting data securely over a transmission channel from a second unit to a first unit, said method comprising the steps of:
- \_\_\_\_\_\_a method for authenticating said first unit to said

  second unit according to as claimed in claim 1, further comprising

  the steps of:
  - ed) encrypting data to be transmitted using an encryption key by said second unit—; and

- de) transmitting said encryption key and the encrypted data
  from said second unit to said first unit or determining said
  encryption key by said first and said second unit.
  - 11. (Currently Amended) Method according to The method as claimed in claim 10, wherein said authorisation authorization list is distributed together with said data to be transmitted, with data carriers, with application units or applications.
  - 12. (Currently Amended) Data A data transmission system for transmitting data securely over a transmission channel comprising:
  - a) a first unit for transmitting authentication data from said first unit to said authentication data
    being retrieved from an authorisation authorisation
    list identifier;
  - b) a second unit for checking the authenticity of the authorisation—authorization—list and the origin of the authentication data from a valid authorisation—authorization—list and for transmitting said data over a transmission channel from said second unit to said first unit.
  - 13. (Currently Amended) Data The data transmission system according to as claimed in claim 12, wherein the second unit is provided comprises:

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	means for encrypting data to be transmitted using an
5	encryption key, and
	means for transmitting said encryption key and said
	encrypted data from said second unit to said first unit or for
	determining said encryption key by said first and said second unit.
	14. (Currently Amended) Data The data transmission system
	according to as claimed in claim 12, wherein said data transmission
	<pre>system further comprising comprises:</pre>
	a certification unit for providing a public key of said
5	certification unit for checking said authentication data and for
	providing and updating said authorisation authorization list.
	15. (Currently Amended) Data The data transmission system
	according to as claimed in claim 12, wherein said data transmission
	<pre>system further comprising comprises:</pre>
	a computer comprising a reading unit for reading a data
5	carrier storing the data to be transmitted,
	wherein said first unit is part of said computer provided
	for running an application, and
	wherein said second unit is part of said computer
	connected to or arranged in the reading unit provided for
10	decrypting and re-encrypting data read from said data carrier.

- 16. (Currently Amended) Data A data transmission apparatus for transmitting data securely over a transmission channel comprising:
- a) a first unit for transmitting authentication data from said first unit to said second unit, said authentication data being retrieved from an authorisation authorization list comprising a list identifier; and
- b) a second unit for checking the authenticity of the

  authorisation—authorization—list and the origin of the

  authentication data from a valid authorisation—authorization—list,

  for encrypting data to be transmitted using an encryption key, and

  for transmitting said encryption key and said encrypted data from

  said second unit to said first unit or for determining an

  encryption key by said first and said second unit.